

Marmara University Faculty of Architecture
School of Architecture and Design
2021-2022 Fall Semester

Course Title	Code	Semester	Hour (T+P)	Credit	ECTS	
Detail and Design	ARCH 403	7	2+0	2	2	
Prerequisites	-					
Language of Instruction	English					
Course Type (Required / elective)	Required					
Course Coordinator	-					
Instructor /e-mail	Dr. Öğretim Üyesi H. Nur KIZILYAPRAK / nur.kizilyaprak@marmara.edu.tr					
Assistants	Arş. Gör. Rumeysa TEMEL					
Goals	Understanding of architectural details, viewing them within part-to-whole relationship with the building, understanding their visual and functional contribution to the building and perceiving the detailing process as the smallest unit of design "codes" of buildings.					
Learning Outcomes	<ol style="list-style-type: none"> 1. Students gain the ability to consider the concept of "architectural detail" as a design problem. 2. Students gain awareness of different perspectives on architectural detailing and the meaning of detail. 3. Students gain the ability to analyze an existing architectural detail in terms of design input and the performances it meets. 4. Students gain awareness of different systematic detail development approaches. 5. Students gain the ability to consider the act of detailing as a systematic and rational process. 					
Course Content	<p>To understand, apply and synthesize basic knowledge of use of materials, building techniques, construction, building physics and climate by focusing on tectonic design of building parts and given conditions:</p> <ul style="list-style-type: none"> ▪ "Building", architectural technology terminology and detailing approaches ▪ Analysis of building and building elements with systems thinking, understanding the effects of construction methods and material use ▪ Interaction user-environment/location-building systems ▪ Design principles and performance requirements of building elements ▪ Intuitive and systematic detail design approaches 					
Assessment Criteria	Assessment Components					
	Weekly Studies				%10 (before midterm) %10 (before final)	
	Mid-term				%30 (submission 1 %10 + submission 2 %20)	
	Final Exam				50% (final submission)	
	TOTAL				100%	
Midterm grade:						
Final grade:						
Course success:						

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WEEKLY TOPICS AND PREPARATIONS	
Weeks	Topics
Week 1 3.10.2022	Meeting and Sketch Workshop (Faculty opening event)
Week 2 10.10.2022	Lecture – What is architectural detailing./Different architects’ perspectives of detail?
Week 3 17.10.2022	Student presentations – Architects and their projects
Week 4 24.10.2022	Student presentations – Architects and their projects
Week 5 31.10.2022	Lecture – Criteria affecting architectural detail design: performance and system approach (forming student groups and determining the details to be studied)
Week 6 7.11.2022	Student presentations – Detail analyse
Week 7 14.11.2022	Student presentations – Detail analyse
Week 8 21.11.2022	MID TERM Content: 1.A3 presentation board: Architects and their projects 2. A3 presentation board: Detail analyse
Week 9 28.11.2022	Lecture – Systematic detail development approaches
Week 10 5.12.2022	Lecture – Systematic detail development approaches
Week 11 12.12.2022	Lecture – Systematic detail development approaches
Week 12 19.12.2022	Student presentations – Original approach suggestions
Week 13 26.12.2022	Student presentations – Original approach suggestions
Week 14 2.01.2023	Student presentations – Original approach suggestions
Week 15 9.01.2023	Student presentations – Original approach suggestions
Week 16 16.01.2023	FINAL A3 presentation board: Original approach suggestions and 1 exercise

REFERENCES

Allen, E. (1993). *Architectural detailing function constructibility aesthetics*. New York: Wiley.
Bachman, L. R. (2003). *Integrated buildings: the systems basis of architecture*. Mexico: John Wiley & Sons, Inc.

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Dickinson, D. (1997). *Expressive details: materials, selection, use*. New York: McGraw-Hill.
 Emmitt, S., Olie, J. and Schmid, P. (2004). *Principles of architectural detailing*. Oxford, UK; Malden, MA: Blackwell Pub.
 Ford, E. (2011). *The architectural detail*. New York: Princeton Architectural Press.
 Herrmann, E.M., Krammer, M., Sturm, J., & Wartzeck, S. (2015). *Enclose-build: The building envelope - facade, wall, roof*. Basel: Birkhäuser Verlag.
 Leatherbarrow, D. & Mostafavi, M. (2002). *Surface architecture*. Cambridge: MIT Press.
 Meijs, M. & Knaack, U. (2009). *Principles of construction: components and connections*. Berlin: Birkhäuser Verlag.
 Moro, J. L., Rottner, M., Alihodzic, B. & Weissbach, M. (2009). *Baukonstruktion vom Prinzip zum Detail, Band 2*. Berlin: Springer-Verlag.
 Moussavi, F. (2009). *The function of form*. NY: Actar and Harvard Graduate School of Design.
 Rush, Richard D. (1986). *The building systems integration handbook*. New York: John Wiley & Sons, Inc.
 Schittich, C. (2006). *In Detail: Building Skins*. Basel: Birkhäuser Verlag.
 Watts, A. (ed.) (2011). *Modern Construction Envelopes*. Wien: Springer-Verlag.
 Detail Magazines

ECTS / WORKING HOUR TABLE			
Activities	Number of Weeks	Duration (Hour)	Working Hours
Duration of the Course (Including Exams: 14 x Total Weekly Course Hour)	14	2	28
Extracurricular Working Hour (Preparatory Work, Review, Internet studies etc.)	12	2	24
Midterm exam	1	2	2
Homeworks and Presentations	3	2	6
Final Exam	1	2	2
Working Hours in Total			62
Working Hours in Total / 30			2,06
ECTS Credit of the Course			2